Why Sustainability Assessment of Port Projects Matters
BOTANY BAY, SYDNEY PORT EXPANSION

- 2011
- 63 hectares of reclaimed terminal land
- construction of 1.85 km of shipping wharves with deep water berths

- Penrhyn Estuary Habitat enhancement
- Foreshore beach development
Bay: -63 ha

Quay: +1850m

Rock rubble: +2 ha

Mangrove: -1 ha

Intertidal sand and mudflats: +8.3 ha

Shrub: -11 ha

Saltmarsh: +2 ha

Seagrass: +6 ha

Port Botany Expansion
## BOTANY BAY, SYDNEY PORT EXPANSION

### Qualitative, quantitative and/or monetary assessment

<table>
<thead>
<tr>
<th>Opportunities for transportation</th>
<th>Recreation</th>
<th>Climate regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>+8,000 TEUs/y port capacity</td>
<td>Enhanced with the recreation plan</td>
<td>Capacity: -56 tonC/y</td>
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</tbody>
</table>

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<tr>
<th>Fish production</th>
<th>Port Botany Expansion</th>
<th>Water quality regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase nursery area</td>
<td>-2,223 kgN/y, +120 kgP/y</td>
<td>Capacity: -312 kgPM10/y</td>
</tr>
</tbody>
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<th>Biodiversity</th>
<th>Sedimentation /erosion regulation</th>
<th>Air quality regulation</th>
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<td>Positive impact on shorebirds is expected</td>
<td>Capacity: +3350 m³/y</td>
<td>Capacity: -56 tonC/y</td>
</tr>
</tbody>
</table>

### Positive impact on shorebirds is expected

Qualitative, quantitative, and/or monetary assessment of the effects of the port expansion.
Sustainable Asset Valuation (SAVi) of Nature-Based Coastal Protection in the Netherlands:

An economic valuation of the contribution of the Hondsbossche Dunes sand nourishment to climate adaptation and local development

NBI REPORT

HONDBOSSCHE SEA DUNES

Before

After
HONDBOSSCHE SEA DUNES, CAUSAL LOOP DIAGRAM
HONDBOSSCHE SEA DUNES
THE VALUATION OF EXTERNALITIES IN MARITIME INFRASTRUCTURE PROJECTS

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